through 62, and 74 through 79 — "Group II" of the claims as defined at page 2 of the Action.

(Applicant previously canceled claims 8, 9 and 13, claims 17 through 41, 63 through 65, and 70 through 72.)

Starting on the next page is a full presentation ("clean") of all the claims now in this case, namely:

- all claims amended hereby (claims 3 through 7, and claims 66 and 67);
- new claims hereby added (claims 80 through 96); and
- the unamended claims (claims 1, 2, 11, 12, 68, 69 and 73).

Regarding this claim-numbering format please see the "REMARKS" section, page 16.

Marked-up copies of the claims as amended in this document are provided below in the Appendix, following the signature page.

PLEASE NOTE: For the Examiner's convenience, and consistent with 37 CFR § 121(c), the new claims are inserted into the claim sequence at the points where proposed — namely, new 80 through 86 following claim 2; new 87 and 88 following claim 7; and 89 through 96 following 73.

Thus the claims are in desired sequence though not in numerical order.

[Claims 1 and 2 below are original unamended claims.]

1. A laser projector comprising:

laser apparatus for projecting a picture beam that includes visible laser light of wavelength about six hundred thirty-five (635) nanometers or longer; and

a reflective liquid-crystal light valve for modulating the beam with a desired image.

2. The projector of claim 1, wherein:

light that appears red in the beam comprises substantially only said laser light of wavelength about 635 nanometers or longer.

80. (new) The projector of claim 2, further comprising:

means for also incorporating blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

81. (new) The projector of claim 80, wherein:

said light valve also receives blue and green laser light for modulation, within the same light valve.

82. (new) The projector of claim 2, further comprising:

means for scanning the beam across a face of the light valve during projection of each image, rather than flooding the entire face substantially simultaneously.

83. (new) The projector of claim 82, further comprising:

means for also incorporating blue and green laser light into the picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

84. (new) The projector of claim 2, wherein:

said light valve also receives blue and green laser light for modulation, within the same light valve.

85. (new) The projector of claim 82, wherein:

the laser apparatus comprises no solid-state lasers, but rather exclusively lasers of gas type.

86. (new) The projector of claim 2, wherein:

the laser apparatus comprises no solid-state lasers, but rather exclusively lasers of gas type.

3. (amended) The projector of claim 86, wherein:

said apparatus projects a beam in which light that appears red is of wavelength between about 635 and 650 nanometers.

4. (amended) The projector of claim 1, wherein:

said apparatus projects a beam in which light that appears red is of wavelength substantially 647 nanometers.

5. (amended) The projector of claim 4, wherein:

the image is a moving picture.

6. (amended) The projector of claim 1, further comprising:

further laser apparatus for projecting one or more beams that include green and blue laser light; and

wherein the laser light of wavelength about 635 nanometers or longer mixes with the green and blue laser light to provide substantially pure neutral colors including pure white and pure black.

7. (amended) The projector of claim 6, wherein:

the further laser apparatus projects substantially cyan native laser light with the blue or green light, or both.

87. (new) The projector of claim 6, further comprising:

means for also incorporating the blue and green laser light into said picture beam; and

separate, additional reflective liquid-crystal light valves for modulating the blue and green light respectively.

88. (new) The projector of claim 6, wherein:

said light valve also receives the blue and green laser light for modulation, within the same light valve.

[Claims 8 and 9 have been canceled.

Claims 10 through 12 below are original unamended claims.]

10. The projector of claim 6, further comprising:

means for receiving high-bandwidth red, green and blue computer-monitor signals from a computer;

wherein the projector serves as a high-color-fidelity computer monitor.

11. The projector of claim 6, wherein:

the liquid-crystal light valve is not controlled by light derived from traditional broadcast video signals.

12. The projector of claim 11, wherein the liquid-crystal light valve is controlled by light or control signals applied to the valve by writing onto a control stage of the valve:

a vector, bitmap or other computer file scanned from an image or generated in a computer, or

amplitude-modulated laser-diode illumination swept two-dimensionally across the control stage, or

images from a small transmissive liquid-crystal display modulator, in turn written by signals not derived from traditional broadcast video signals, or

other entire frames without interlace, or

motion-picture film color separations, or

a still image from a slide or overhead-projection transparency, or a color separation made therefrom, or

a live image optically coupled, without electronic intermediary, to the control stage.

[Claim 13 has been canceled.

Claims 14 through 16 below are original unamended claims.]

14. The projector of claim 6, wherein:

the first-mentioned laser apparatus and the further laser apparatus, considered together, comprise one or more lasers; and

every laser in the first-mentioned laser apparatus and the further laser apparatus is exclusively a solid-state laser.

15. The projector of claim 6, wherein:

the first-mentioned laser apparatus and the further laser apparatus, considered together, comprise one or more lasers; and

every laser in the first-mentioned laser apparatus and the further laser apparatus is exclusively a gas laser.

16. The projector of claim 1, further comprising:

further laser apparatus for projecting one or more picture beams that include green and blue laser light; wherein:

the proportions of light power of the about 635-nanometer or longer-wavelength laser light, the green laser light and the blue laser light are roughly eight to six to five (8:6:5)..

[Claims 17 through 65 have been canceled.]

66. (amended) A laser projection system for forming an image on an irregular projection medium having portions at distinctly differing distances from the projector; said system comprising:

laser apparatus for projecting a picture beam that includes laser light;

a liquid-crystal light valve for impressing an image onto the beam; and

means for projecting the beam from the light valve, ~~with said impressed image onto such irregular projection~~ with said impressed image onto such irregular projection medium as a show for an audience.

67. (amended) The system of claim 66, wherein:

the irregular projection medium comprises one or more projection media selected from the group consisting of:

an interior of a dome, or other building having internal surfaces that are not generally normal to a projection direction,
an exterior of a dome, sculpture, monument, or other structure having external surfaces that are not generally normal to a projection direction,
a waterfall,
a water fountain,
fog or a cloud,
ice,
a scrim in front of a curtain or screen,
a plurality of scrims in optical series,
one or more trees,
grass, vines or other foliage,
a hillside or other landscape, or other receding surface, and
an array of people or other animals or other discrete objects, or combinations thereof, at diverse distances from the projecting means; and

the projecting means display a protracted show on the one or more projection media, for the audience.

[Claims 68 and 69 below are original unamended claims.]

68. The system of claim 67, further comprising:
such irregular projection medium.

69. The system of claim 66, further comprising:
such irregular projection medium.

[Claims 70 through 72 have been canceled.
Claim 73 is an original unamended claim.]

73. The system of claim 66, wherein:
the laser apparatus comprises one or more lasers; and
every laser in the laser apparatus is exclusively a solid-state laser.

[Claims 74 through 79 have been canceled.
Claims 80 through 88 appear *above* in sequence.]

89. (new) The projector of claim 66:

wherein the laser apparatus projects red laser light in the picture beam; and

the light valve impresses red components of an image onto the red laser light; and

further comprising:

means for also incorporating blue and green laser light into the picture beam, and

separate, additional liquid-crystal light valves for respectively impressing blue and green components of the image onto the blue and green light.

90. (new) The projector of claim 66, wherein:

said light valve receives laser light components of three respective colors and impresses corresponding color components of the image onto the three respective light components, respectively, all within the same light valve.

91. (new) A laser projection system for forming an image on an irregular projection medium having portions at distinctly differing distances from the projector; said system comprising:

laser apparatus for projecting a picture beam that includes laser light;

a liquid-crystal light valve for impressing an image onto the beam; and

means for projecting the beam from the light valve, with said impressed image, onto such irregular projection medium to form a substantially sharp image on such medium at such distinctly differing distances.

92. (new) The system of claim 91, wherein:

the irregular projection medium comprises one or more projection media selected from the group consisting of:

an interior of a dome, or other building having internal surfaces that are not generally normal to a projection direction,
an exterior of a dome, sculpture, monument, or other structure having external surfaces that are not generally normal to a projection direction,
a waterfall,
a water fountain,
fog or a cloud,
ice,
a scrim in front of a curtain or screen,
a plurality of scrims in optical series,
one or more trees,
grass, vines or other foliage,
a hillside or other landscape, or other receding surface, and
an array of people or other animals or other discrete objects, or combinations thereof, at diverse distances from the projecting means; and

the projection means form the substantially sharp image on substantially each element of the selected one or more media.

93. (new) A laser projector comprising:

laser apparatus for projecting a picture beam that includes visible laser light of wavelength longer than 640 nanometers; and

a reflective liquid-crystal light valve for modulating the beam with a desired image.

94. (new) The projector of claim 93, wherein:

said apparatus projects a beam of wavelength substantially 647 nanometers.

95. (new) The projector of claim 93:

wherein the light valve impresses red components of an image onto the laser light of wavelength longer than 640 nanometers; and

further comprising:

means for also incorporating blue and green laser light into the picture beam, and

separate, additional liquid-crystal light valves for respectively impressing blue and green components of the image onto the blue and green light.